Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MBA Semester –III Examination Dec. – 2011

Subject code: 2830402   **Date: 15/12/2011**
Subject Name: System Analysis and Design
Time: 10.30 am – 01.30 pm   **Total Marks: 70**
Instructions:
   1. **Attempt all questions.**
   2. **Make suitable assumptions wherever necessary.**
   3. **Figures to the right indicate full marks.**

Q.1	**(a)**	List down the various sources of Software. Explain the various phases of SDLC.	**07**
	(b)	How can we assess Technical feasibility of a software project? What are the various advantages to the Top-Down planning approach over other planning approaches?	**07**
Q.2	**(a)**	How analyzing procedures and other documents help in collecting System requirements?	**07**
	(b)	Define Data Flow Diagrams. How DFDs are used in Business Process Reengineering?	**07**
		OR	
	(b)	Explain the radical methods for determining System requirements.	**07**
Q.3	**(a)**	What is Structured English? Compare and contrast Structured English and Decision Table techniques of logic modeling.	**07**
	(b)	Define E-R modeling. Discuss Candidate keys & Identifiers with examples.	**07**
		OR	
Q.3	**(a)**	What are the guidelines one should follow to decompose the DFDs to its lowest logical level?	**07**
	(b)	Write short notes on: (1) Cardinalities in Relationships (2) Supertypes & Subtypes.	**07**
Q.4	**(a)**	Explain the process of Database Design. What are the rules of Normalization?	**07**
	(b)	List down various methods of interacting with a system. Explain the common devices for interacting with an information system.	**07**
		OR	
Q.4	**(a)**	How is a report produced on a paper different from its counterpart on the computer display? Would the designing for the report be different for different types of displays – paper versus electronic?	**07**
	(b)	What is the difference between evolutionary and throwaway prototyping? How does a traditional design specification differ from Agile design specification?	**07**
Q.5	**(a)**	Summarize the six possible architectures for client / server systems and also describe the advantages of client / server architecture.	**07**
	(b)	Explain the organizational issues in Systems Implementation.	**07**
		OR	
Q.5	**(a)**	Define Data Warehousing & Data Mart. Why do some organizations use these to support organizational decision making?	**07**
	(b)	Explain in detail Unified Modeling Language.	**07**

****